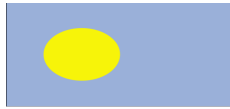
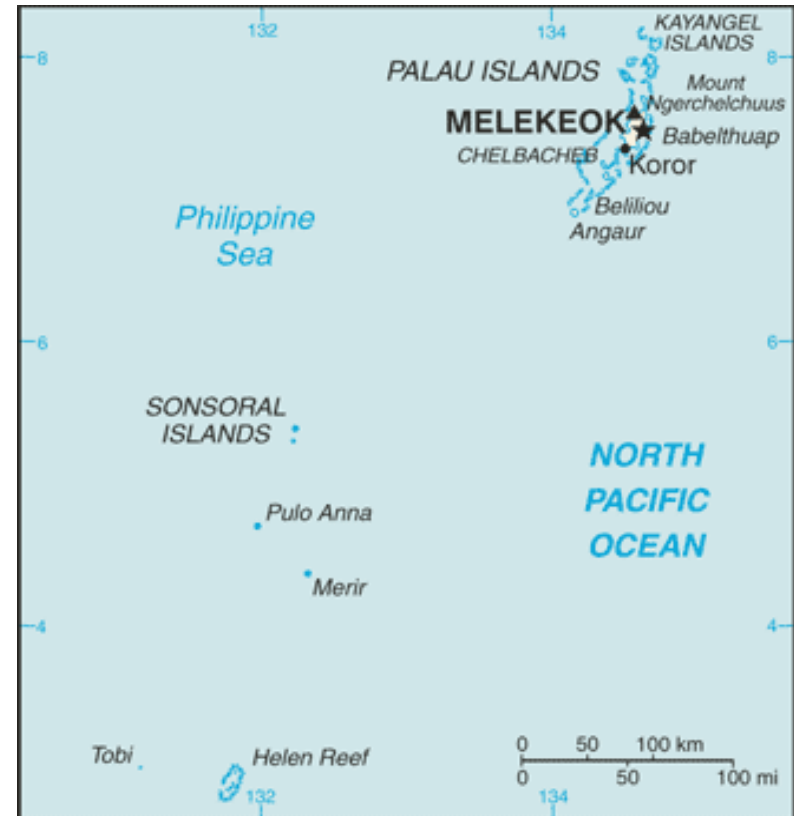
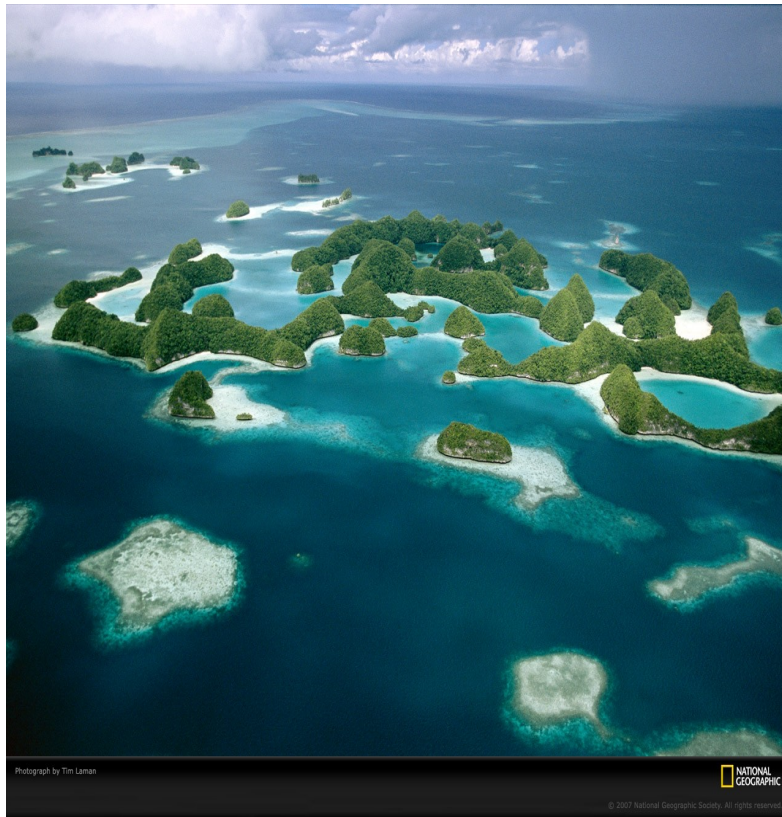
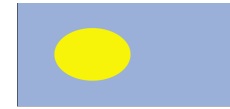


UNCLASSIFIED

Force Health Protection Brief



Palau



26 APR
2010



FORCE HEALTH PROTECTION

Palau



Historical diseases present in area: Diarrheal diseases, Dengue Fever, Tuberculosis (TB), and Ciguatera Fish Poisoning.

Recent Disease Reports: Travelers' Diarrhea, Dengue Fever, and Ciguatera Fish Poisoning.

Force Health Protection Requirements: Up-to-date immunizations, Pre/Post Deployment PPD, and use approved food and water sources. Anti-malarial prophylaxis not required as malaria is not present in Palau, but day and night time insect precautions should be taken.

Medical infrastructure: Hospitals are not equivalent to Western standards. For severe illness or injuries utilize Commander 7th Fleet Annex "Q" requirements for medical treatment.

Environmental Hazards: Avoid congested areas due to TB and avoid local seafood (grouper, snapper, amberjack, and barracuda) as Ciguatera Fish Poisoning may be present in undercooked and well-cooked fish.

Assessment: Mild health risk to operational forces.

26 Apr 2010



FORCE HEALTH PROTECTION



POINTS OF CONTACT

- **International SOS/TRICARE Operations Coordinator**
 - Tel: +65-6338-9277 (Singapore)
 - Email: tricarelon@internationalsos.com
- **TRICARE Area Office - Pacific**
 - COMM: 011-81-6117-43-2036
 - Email: james.marron@med.navy.mil
 - Website: www.tricare.mil/contactus/
- **United States Naval Forces Seventh Fleet Surgeon Liaison Officer**
 - COMM: 808-653-2121
 - DSN: 315-453-2121
 - Email: leticia.macias@c7f.navy.mil



FORCE HEALTH PROTECTION



Food & Water



Avoid:

Food stands

Fruits & veggies (unless peeled/cooked)

Raw meat or fish

Drinking water other than bottled

Local lakes/ponds





FORCE HEALTH PROTECTION



Personal Hygiene

Frequency: 5 times/day

Timing:

BEFORE eating

BEFORE smoking

AFTER bathroom





FORCE HEALTH PROTECTION

Avoiding Insect Bites

- **Cover up**
 - Long sleeves/pants
- **Insect repellent**
 - Permethrin
 - DEET
- **Sleeping**
 - Keep bugs OUT
 - Bed nets, window screens



FORCE HEALTH PROTECTION



Dengue and Dengue Hemorrhagic Fever

- **Causative Agent:** Virus (*Flavivirus*).
- **Transmission:** Bites of *Aedes* mosquitoes which are day biters.
- **Symptoms:** Fever, severe headache, backache, joint pains, nausea, vomiting, eye pain and rash.
- **Treatment:** Symptomatic treatment.
- **Prevention:** No vaccine available. Use insect skin repellent (DEET), permethrin treated bed nets/clothing, and use insecticides.



Vector-borne Disease: Countermeasures



INSECT REPELLENTS FOR SKIN AND CLOTHING

DEET lotion



NSN 6840-01-284-3982



- Apply a thin coat to EXPOSED skin
- One application lasts up to 12 hours

Permethrin

- Individual Dynamic Absorption Kit (IDA)
- Treatment lasts for over 50 launderings



NSN 6840-01-345-0237



NSN 6840-01-278-1336

- Aerosol spray can
- Treatment lasts through 5-6 washes

PERSONAL PROTECTIVE MEASURES



DOD Insect Repellent System

YOU NEED TO KNOW...
Dry cleaning removes permethrin from the uniform

FORCE HEALTH PROTECTION



Travelers' Diarrhea



- **Transmission:** Various; tainted food and water, poor sanitation.
- **Signs/Symptoms:** Abdominal cramping/pain, fever, and loose watery stools lasting 3-4 days.
- **Prevention:** Avoid local water, no raw or undercooked food, peel all fruits/veggies, avoid street vendors, and wash hands with soap prior to eating.
- **Treatment:** Antibiotics for bacterial infection (see health care provider) and Imodium AD (Loperamide). Do not take Imodium if you have blood in your stool.



FORCE HEALTH PROTECTION

Ciguatera Fish Poisoning

- **Causative Agent:** toxins produced by marine microalgae (*Gambierdiscus toxicus*).
- **Transmission:** eating fish contaminated with the toxin (barracuda, black grouper, blackfin snapper, cubera snapper, dog snapper, greater amberjack, hogfish, horse-eye jack, king mackerel, and yellowfin grouper have been known to carry ciguatoxins).
- **Symptoms:** nausea, vomiting, and neurologic symptoms such as tingling fingers or toes. Cold things may feel hot and hot things may feel cold.
- **Treatment:** symptomatic treatment. Ciguatera has no cure. Symptoms usually go away in days or weeks but can last for years.
- **Prevention:** avoid local seafood as Ciguatera Fish Poisoning may be present in undercooked and well-cooked fish.

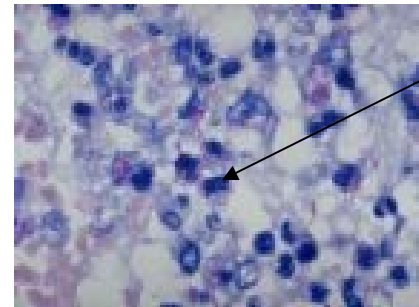


FORCE HEALTH PROTECTION



Tuberculosis (TB)

- **Causative Agent:** Bacteria (*Mycobacterium tuberculosis*).
- **Transmission:** Airborne droplet via respiration.
- **Symptoms:** Cough, fatigue, night sweats, fever and rapid heart rate.
- **Treatment:** Antibiotics (some strains resistant to multiple drugs) and respiratory isolation.
- **Prevention:** No vaccine available. Avoid contact with persons with active TB, congested areas, and receive annual screening (PPD).



***M.
tuberculosis***





FORCE HEALTH PROTECTION



Sexually Transmitted Disease

HIGH RISK FOR STDs - Hepatitis B, HIV, etc.

FHP Requirements

- Avoid sexual contact.
- Use latex condoms if sexually active.
- Use Condom Sense!



***STD diseases can be transmitted by tattoo needles.**



FORCE HEALTH PROTECTION

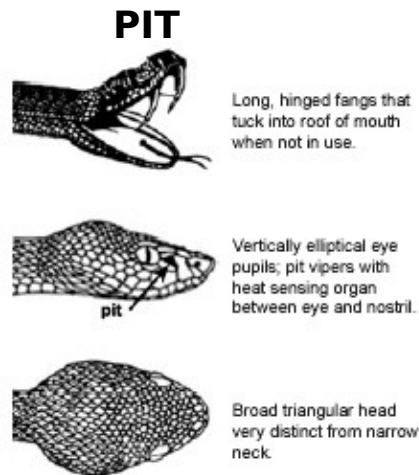


Local Animals

- **Many countries have NO rabies control programs!**
- **Do not feed or attempt to touch animals.**
- **Report bites immediately.**
- **No mascots!**



VENOMOUS SNAKES



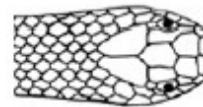
COBRAS/KRAITS/CORAL SNAKES



Short fangs fixed in erect position in front of mouth.



Round eye pupils.



Head small and not distinct from the body.



HAZARDOUS PLANTS



- Plant resins cause skin irritation
- Poisonous roots, stems, leaves, and fruit
- Weeds and stinging nettles
- Thorny shrubs and trees

Poisonous Plants



*Mucuna
pruriatissima*

Systemic



*Elephant's
Ear Plant*



Rattan Palm



Irritation

Thorny Plant

Punctures and
Abrasions

COUNTERMEASURES

- Avoid touching unfamiliar plants
- Use clothing as protective barrier
- Rinse skin promptly after exposure
- Wash clothing after contact
- Never eat any part of unfamiliar



Required Health Measures

- Pages 13-15 USNS Mercy Handbook
- Immunizations
- Malaria chemoprophylaxis
 - Terminal chemoprophylaxis*
- Mosquito & insect bite prevention
- Pre-mission health assessment
 - Include Tuberculosis (TB) screening test
 - G6PD blood test*
- Obtain personal medication

*Depends on itinerary – obtain specific guidance



Required Immunizations



- Start vaccinations early to accommodate vaccines that require several doses within a series
- Mission-specific:

- Hepatitis B*/**
- Typhoid
- Japanese Encephalitis**
- Rabies**

- Routine:

- Tetanus/diphtheria
- Measles (MMR)
- Polio
- Varicella (chicken pox)
- H1N1 Influenza
- Seasonal Influenza
- Hepatitis A

* Required for health care providers

** For high risk groups only – obtain specific guidance



FORCE HEALTH PROTECTION



Palau Entry Requirements

- Although yellow fever is not a disease risk in Palau, the government requires travelers arriving from countries where Yellow Fever is present (see guidance for countries in Africa, Central and South America) to present proof of yellow fever vaccination.
- Example of Yellow Fever card.

seu du Service de la Santé Publique des États Unis, ou le timbre spécial "S-C" approuvé par ce service.)
Toute correction ou rature sur le certificat ou l'omission d'une quelconque des mentions qu'il comporte peut affecter sa validité.

*If unsuccessful, vaccination must be repeated and a new certificate executed.
Si la vaccination n'a pas pris, il faudra recommencer et un nouveau certificat devra être établi.

INTERNATIONAL CERTIFICATE OF VACCINATION OR REVACCINATION AGAINST YELLOW FEVER
CERTIFICAT INTERNATIONAL DE VACCINATION OU DE REVACCINATION CONTRE LA FIÈVRE JAUNE

This is to certify that
Je soussigné(e) certifie que sex
whose signature follows
dont la signature suit date of birth
né(e) le
has on the date indicated been vaccinated or revaccinated against yellow fever.
a été vacciné(e) ou revacciné(e) contre la fièvre jaune à la date indiquée.

Date	Signature and professional status of vaccinator Signature et qualité professionnelle du vaccinateur	Origin and batch number of vaccine Origine du vaccin employé et numéro du lot	Official stamp of vaccinating center Cachet officiel du centre de vaccination
1/17/61	Capt. John P. Leddy, MC Walter Reed Army Medical Center, Washington, D.C.	National Drug Co. lot # 4798	MEDICAL SERVICES UNITED STATES PACIFIC FLEET CERTIFIED DISBURSER
6 June 62	Alvan B. ... MC	National Drug Co. # 5319	

VACCINATING CENTER
CENTRE DE VACCINATION

ADDRESS (CITY—VILLE) (STATE—ÉTAT)
ADRESSE

THIS CERTIFICATE IS VALID only if the vaccine used has been approved by the World Health Organization and if the vaccinating center has been designated by the health administration for the country in which that center is situated.

THE VALIDITY OF THIS CERTIFICATE shall extend for a period of 6 years, beginning 10 days after the date of vaccination (for India, Pakistan, and Ceylon 12 days) or, in the event of a revaccination, within such period of 6 years, from the date of that revaccination.

Any amendment of this certificate, or erasure, or failure to complete any part of it, may render it invalid.

CE CERTIFICAT N'EST VALABLE que si le vaccin employé a été approuvé par l'Organisation Mondiale de la Santé et si le centre de vaccination a été habilité par l'administration sanitaire du territoire dans lequel ce centre est situé.

LA VALIDITÉ DE CE CERTIFICAT couvre une période de six ans commençant dix jours après la date de la vaccination (pour l'Inde, Pakistan et Ceylan 12 jours) ou, dans le cas d'une revaccination au cours de cette période de six ans, le jour de cette revaccination.

Toute correction ou rature sur le certificat ou l'omission d'une quelconque des mentions qu'il comporte peut affecter sa validité.

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Questions?



- **Please contact your local health care provider**
- **Navy Environmental and Preventative Medicine Unit No. 6**
Duty Phone: 808-471-0237
nepmu6admin@med.navy.mil
- **Navy Environmental and Preventative Medicine Unit No. 5**
Duty Phone: 619-556-7070
nepmu5@med.navy.mil